

XTRA•GUARD® MULTICONDUCTOR, SHIELDED/UNSHIELDED CONTINUOUS USE, SUPER-FLEXIBLE, HEAVY DUTY CONTROL CABLE

UL AWM STYLE 2587
CSA AWM I A/B II A/B FT1
600 VOLT

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W I R E S

L I N E

C O R D S & A C C



CHOOSE XTRA•GUARD CONTINUOUS USE SUPER-FLEXIBLE CABLES FOR:

- Two Times the Flexibility of Ordinary PVC Cable
- Extra Flexibility and Durability for Continuous Motion
- Extended Cycle Life
- Outstanding Oil and Chemical Resistance
- UL Recognized and CSA Certified
- Jacket Meets VDE 0472, Section 803 Oil Test

XTRA•GUARD CONTINUOUS USE SUPER-FLEXIBLE CABLE APPLICATIONS:

- Applications Requiring Continuous Flexing
- Robotics
- Installation of Cable Track
- Automation Equipment
- Assembly Lines
- Material Handling Equipment

CHARACTERISTICS

OPERATING TEMPERATURE: PRODUCT DESCRIPTION:

- -5°C to 90°C
- Conductor: Super Finely Stranded Bare Copper
- VOLTAGE RATING: 600 Volt
- Insulation: Talc Coated, PVC
- COLOR DESCRIPTION: Color Code: Numerically Numbered Red Conductors With One Green/Yellow Conductor on Outside Layer
- Fillers: Non-wicking, Solid PVC Rod
- Wrap: Non-wicking Fabric
- Inner Jacket: PVC
- Shield: Tinned Copper Braid (85% Coverage)
- Outer Jacket: Oil Resistant PVC
- Jacket Color: Black

SPECIFICATIONS

- Bend Radius: 10X Cable Diameter
- CSA AWM I A/B II A/B FT1
- UL AWM Style 2587
- Jacket Meets VDE 0472, Section 803 Oil Test
- Passes MIL-C-13777G Flexlife Test
- Cycle Life Testing Ongoing, Contact Tech Service for Status

Underwriters Laboratories Inc. Canadian Standards Association

AVAILABILITY

- In Stock: 100 ft (30,5m), 500 ft (152m) and 1000 ft (305m) put-ups

20 AWG (0,50mm), 63/68 (63/0,10mm), Insulation Thickness: 0.022" (0,56mm)

Alpha Part No.	No. of Cond.	Jacket Thickness Inches	mm	Nominal Diameter Inches	mm
85003	3	0.045	1,14	0.32	8,1
85003CY*	3	0.055	1,34	0.48	12,2
85004	4	0.045	1,14	0.34	8,6
85004CY*	4	0.055	1,34	0.51	13,0
85005	5	0.045	1,14	0.37	9,4
85005CY*	5	0.055	1,34	0.55	14,0
85007	7	0.055	1,34	0.42	10,7
85007CY*	7	0.055	1,34	0.58	14,7
85010CY*	10	0.065	1,65	0.71	18,0
85012	12	0.055	1,34	0.54	13,7
85012CY*	12	0.065	1,65	0.72	18,3
85018	18	0.065	1,65	0.64	16,3
85018CY*	18	0.065	1,65	0.80	20,3
85025	25	0.065	1,65	0.77	19,6
85025CY*	25	0.075	1,91	0.96	24,4
85034	34	0.075	1,91	0.87	22,1

18 AWG (1,00mm), 105/38 (105/0,10mm), Insulation Thickness: 0.022" (0,56mm)

Alpha Part No.	No. of Cond.	Jacket Thickness Inches	mm	Nominal Diameter Inches	mm
85803	3	0.045	1,14	0.34	8,6
85803CY*	3	0.055	1,34	0.50	12,7
85804	4	0.045	1,14	0.36	9,1
85804CY*	4	0.055	1,34	0.54	13,7
85805	5	0.055	1,34	0.41	10,4
85805CY*	5	0.055	1,34	0.57	14,5
85807	7	0.055	1,34	0.45	11,4
85807CY*	7	0.055	1,34	0.61	15,5
85812	12	0.055	1,34	0.58	14,7
85812CY*	12	0.065	1,65	0.76	19,3
85815	15	0.065	1,65	0.67	17,0
85818	18	0.065	1,65	0.69	17,5
85818CY*	18	0.075	1,91	0.88	22,4
85825	25	0.075	1,91	0.87	22,1
85825CY*	25	0.075	1,91	1.04	26,4
85834	34	0.075	1,91	0.93	23,6

16 AWG (1,50mm), 163/38 (163/0,10mm), Insulation Thickness: 0.022" (0,56mm)

Alpha Part No.	No. of Cond.	Jacket Thickness Inches	mm	Nominal Diameter Inches	mm
85603	3	0.045	1,14	0.38	9,7
85603CY*	3	0.055	1,34	0.56	14,2
85604	4	0.055	1,34	0.43	10,9
85604CY*	4	0.055	1,34	0.59	15,0
85605	5	0.055	1,34	0.47	11,9
85605CY*	5	0.065	1,65	0.65	16,5
85607	7	0.055	1,34	0.51	13,0
85607CY*	7	0.065	1,65	0.69	17,5
85612	12	0.065	1,65	0.67	17,0
85612CY*	12	0.065	1,65	0.83	21,1
85618	18	0.065	1,65	0.78	19,8
85618CY*	18	0.075	1,91	0.97	24,6
85625	25	0.075	1,91	0.96	24,4
85625CY*	25	0.085	2,16	1.15	29,2
85634	34	0.085	2,16	1.08	27,4

14 AWG (2,50mm), 266/38 (266/0,10mm), Insulation Thickness: 0.022" (0,56mm)

Alpha Part No.	No. of Cond.	Jacket Thickness Inches	mm	Nominal Diameter Inches	mm
85404	4	0.055	1,34	0.46	11,7
85404CY*	4	0.055	1,34	0.64	16,3
85407	7	0.055	1,34	0.55	14,0
85407CY*	7	0.055	1,34	0.73	18,5

*Designates shielded

OLFLEX-FD® 890

Super Flexible Heavy Duty Continuous Flex Control Cable

OLFLEX-FD® 890 is a super flexible, heavy duty, multi-conductor cable designed for continuous flex applications. The specially formulated PVC insulating and jacketing compounds increase flex life and provide optimum resistance to mineral oils, synthetic oils, and water based coolants. Our specially blended PVC jacket passes the stringent demands of the VDE 0472 section 803 oil test.



The OLFLEX-FD® 890 continuous flex cable is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems, and other continuous flexing applications.

Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; conductors cabled with non-wicking textile wrap over outer layer; specially formulated oil resistant PVC jacket.



- Also available with blue and black conductors; minimum order required

Technical Data:

Minimum bend radius
for continuous flexing: 8 x cable diameter

Temperature range:

Flexing: -5°C to +90°C
Static: -40°C to +90°C

Rated voltage: 600 V

Test voltage: 3000 V

Insulation resistance: 20 GW x cm

Conductor stranding: Super fine wire

Color code: Red with black numbers, plus green/yellow

Optional: Other color codes available upon request

Approvals: UL Style 2587 for PVC jacket (90°C)
CSA AWM II A/B FT1
Conforms to CE Directives

Based on VDE specifications

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
20 AWG (74/38) 0.50 mm ²						891607	7	.457	11.6	138	205
892003	3	.256	6.5	43	64	891612	12	.567	14.4	227	338
892004	4	.276	7.0	49	73	891618	18	.657	16.7	323	481
892005	5	.303	7.7	54	80	891625	25	.843	21.4	479	713
892007	7	.362	9.2	75	112	891634	34	.921	23.4	622	927
892012	12	.449	11.4	124	185	891650	50	1.075	27.3	879	1309
892018	18	.539	13.7	183	273	891660	60	1.189	30.2	1075	1602
892025	25	.673	17.1	265	395	14 AWG (320/38) 2.50 mm ²					
892034	34	.732	18.6	338	504	891404	4	.429	10.9	148	220
18 AWG (114/38) 0.75 mm ²						891407	7	.579	14.7	227	338
891803	3	.272	6.9	46	68	12 AWG (512/38) 4.00 mm ²					
891804	4	.295	7.5	60	89	891204	4	.528	13.4	208	310
891805	5	.323	8.2	74	110	891207	7	.705	17.9	335	499
891807	7	.413	10.5	102	152	10 AWG (343/34) 6.00 mm ²					
891812	12	.524	13.3	158	236	891004	4	.587	14.9	275	410
891815	15	.531	13.5	202	301	8 AWG (320/32) 10.00 mm ²					
891818	18	.587	14.9	234	348	890804	4	.827	21.0	481	716
891825	25	.720	18.3	336	501	6 AWG (512/32) 16.00 mm ²					
891834	34	.799	20.3	434	646	890604	4	.996	25.3	708	1055
16 AWG (190/38) 1.50 mm ²						4 AWG (800/32) 25.00 mm ²					
891603	3	.311	7.9	79	118	890404	4	1.138	28.9	1004	1496
891604	4	.346	8.8	99	148	2 AWG (1120/52) 35.00 mm ²					
891605	5	.374	9.5	124	185	890204	4	1.319	33.5	1239	1846

UNITRONIC-FD®

Very Flexible, Continuous Flex Data Transmission Cable

UNITRONIC-FD® is a very flexible, multi-conductor, data transmission cable designed for automated production processes requiring increased flex life characteristics and durability. The small cable diameters allow installation in confined operating areas.

The specially blended PVC jacket is resistant to mineral oils, synthetic oils and water based coolants and prevents the cable from adhering to adjacent cables and cable track.

Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; non-wicking textile wrap; specially formulated gray PVC jacket.



Technical Data:

Minimum bend radius
for continuous flexing: 10 x cable diameter

Temperature range: -5°C to +70°C

Rated voltage: 300 V

Test voltage: 1500 V

Insulation resistance: 10 GWx cm

Conductor stranding: Super fine wire,
diameter 0.10 mm

Color code: Chart 8, DIN 47100, page 225

Based on VDE specifications

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm ²						22 AWG (42/38) 0.34 mm ²					
27840	2	.169	4.3	15	23	27861	14	.335	8.5	72	108
27841	3	.173	4.4	17	26	27863	18	.362	9.2	87	130
27842	4	.185	4.7	21	31	27865	25	.441	11.2	119	178
27843	5	.197	5.0	23	35						
27844	7	.244	6.2	34	50	27870	2	.201	5.1	26	38
27845	10	.283	7.2	42	63	27871	3	.205	5.2	29	43
27846	14	.291	7.4	52	77	27872	4	.236	6.0	38	57
27847	18	.315	8.0	61	91	27873	5	.256	6.5	44	65
27848	25	.378	9.6	84	125	27874	7	.295	7.5	57	85
24 AWG (32/38) 0.25 mm ²						27875	10	.362	9.2	79	117
27855	2	.181	4.6	20	30	27876	14	.366	9.3	101	151
27856	3	.189	4.8	22	33	27877	18	.409	10.4	122	182
27857	4	.205	5.2	27	40	27878	25	.500	12.7	168	250
27858	5	.240	6.1	34	51						
27859	7	.272	6.9	43	64						
27860	10	.327	8.3	56	84						

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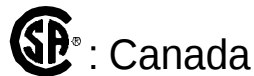
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OLFLEX®-150 (Quattro Approval)

Oil Resistant Flexible Control Cable with International Approvals



<HAR>



Olflex®-150 is a multi-conductor, 600 volt, 90°C extremely oil resistant control cable with international approvals to be used on machinery and equipment

designed for use in the U.S. and for worldwide export. Excellent for industrial applications, electronics, communications, process control and instrumentation.

Construction:

Finely stranded bare copper conductors; PVC insulation; dry lubricant; conductors cabled with non-wicking fillers; gray PVC jacket (RAL 7001).



Technical Data:

Minimum bend radius for installation: 5 x cable diameter

Temperature range:
to VDE+SEV: -5°C to +70°C
to UL+CSA: -5°C to +90°C

Rated voltage:
to VDE+SEV: 300/500 V
to CE+HAR: 600 V

Test voltage: 3000 V

Insulation resistance: 20 GW x cm

Conductor stranding: Fine wire per VDE 0295, Class 5

Color code: Black with white numbers, plus Green/Yellow (VDE 0293)

Approvals:
UL—AWM
CSA—AWM II A/B FT1
HAR—HO5VV5-F

Conforms to CE Directives

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
20 AWG (16/32) 0.50 mm ²						16 AWG (30/30) 1.50 mm ²					
15003	3	.244	6.2	42	62	15303	3	.311	7.9	74	110
15004	4	.272	6.9	46	68	15304	4	.354	9.0	95	141
15005	5	.291	7.4	58	87	15305	5	.386	9.8	113	168
15007	7	.358	9.1	80	119	15307	7	.480	12.2	151	224
15012	12	.445	11.3	133	198	15312	12	.571	14.5	243	362
15018	18	.520	13.2	180	267	15318	18	.693	17.6	348	518
15025	25	.614	15.6	256	380	15325	25	.815	20.7	491	730
15034	34	.736	18.7	342	509	15334	34	.969	24.6	637	947
15041	41	.787	20.0	400	595	15341	41	1.035	26.3	764	1136
18 AWG (32/32) 1.00 mm ²						15350	50	1.126	28.6	929	1382
15203	3	.283	7.2	60	89	15361	61	1.236	31.4	1102	1639
15204	4	.307	7.8	67	99	14 AWG (50/30) 2.50 mm ²					
15205	5	.354	9.0	89	132	15403	3	.382	9.7	114	170
15207	7	.437	11.1	114	169	15404	4	.433	11.0	141	210
15212	12	.519	13.2	192	286	15405	5	.476	12.1	173	257
15218	18	.630	16.0	272	405	15407	7	.559	14.2	229	340
15225	25	.748	19.0	383	570	15412	12	.701	17.8	390	580
15234	34	.882	22.4	499	742	15418	18	.839	21.3	571	850
15241	41	.945	24.0	596	886	15425	25	.988	25.1	790	1175
15250	50	1.024	26.0	721	1072						
15261	61	1.122	28.5	851	1266						
15262	65	1.201	30.5	948	1410						

OLFLEX® - VFD

Oil Resistant Flexible Motor Supply Cable
For Variable Frequency Drives
1000 Volts/3000 Volts Peak

(UL)

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Olflex® - VFD is a shielded, flexible motor supply cable for variable speed drives subject to non-linear power distortions. This cable is used to interconnect an AC variable frequency drive or control system, to an AC variable frequency motor. The VFD cable is different from other motor supply cables because it can disperse the voltage spikes, harmonics, and power distortions associated with

variable frequency drives. Specially formulated composite insulation disperses voltage spikes preventing cable damage. An inner jacket is used to protect the insulation from the braid shield and to lower the capacitive interaction between the shield and power conductors. The outer orange jacket is extremely oil resistant and UV resistant.

Construction:
Tinned copper conductors; specially blended composite insulation; an inner PVC jacket; 100% shielding with foil tape and tinned copper braid; specially formulated orange PVC jacket.



Technical Data:

Minimum bend radius for flexible use:	12 x cable diameter	Conductor Stranding:	Fine Wire
Temperature range:	-25°C to +90°C	Color code:	Three Black Conductors with White Numbers and One Green/Yellow Ground
Rated voltage:	1000 VAC/3000 VAC Peak	Conductor	
Test voltage:	7500 V	Approvals:	(UL) Flexible Motor Supply Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm		
14 AWG (41/30)					
1404 VFD	4	.560	14.2	224	333
12 AWG (65/30)					
1204 VFD	4	.604	15.3	268	399
10 AWG (105/30)					
1004 VFD	4	.732	18.6	428	637
8 AWG (133/29)					
0804 VFD	4	.869	22.1	561	835
6 AWG (133/27)					
0604 VFD	4	1.011	25.7	802	1193
4 AWG (133/25)					
0404 VFD	4	1.185	30.1	1205	1793
3 AWG (133/24)					
0304 VFD	4	1.394	35.5	1460	2172
2 AWG (133/0.223)					
0204 VFD	4	1.404	35.7	1703	2534

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OLFLEX-SERVO-FD® 755 P (Gray)

Halogen Free Continuous Flex Composite Power Supply and Feedback Cable for Small Bend Radius Applications

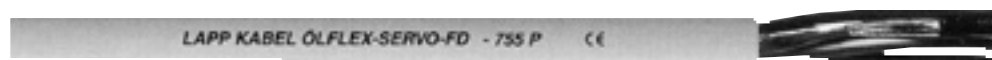


OLFLEX-SERVO-FD® 755 P is an ultra flexible, halogen free, continuous flex power supply and feedback cable which has been designed for automated servo systems. This composite cable offers a unique combination of signal and power conductors, under one jacket, while reducing weight and saving space.

The special design makes OLFLEX-SERVO-FD® 755 P ideally suited for small bend radius applications, such as cable tracks, automated handling equipment, pick-and-place units, gantry robots, machine tools, and other continuous movement applications.

Construction:

Finely stranded bare copper conductors; pairs and power conductors are insulated with special elastomeric compounds; pairs shielded with aluminum foil and tinned copper drain wire plus tinned copper braid; non-woven material wrapping; specially formulated gray polyurethane outer jacket.



Technical Data:

Minimum bend radius for continuous flexing: 5 x cable diameter

Temperature range:
Flexing: -30°C to +80°C

Working voltage: 600/1000 V

Color Code: Black with White Numbers, plus green/yellow

Insulation resistance: 20 TW x cm

Conductor stranding: Extra Fine Wire per VDE 0295, Class 6

Test voltage: Cond./cond.: 400 V
Cond./braid: 1000 V

Conforms to CE Directives

Part Number	Power Conductors	Plus	Signal Pairs, Individually Shielded	Nominal Outer Diameter inches mm	lbs/mft	Approx. Weight kg/km
Four Power Conductors and One Signal Pair						
36601	16awg/4c		17awg/1pr	.480 12.2	121	180
36602	14awg/4c		17awg/1pr	.531 13.5	157	234
36603	12awg/4c		17awg/1pr	.594 15.1	215	320
36604	10awg/4c		17awg/1pr	.665 16.9	272	404
36605	8awg/4c		17awg/1pr	.827 21.0	427	635
36606	6awg/4c		16awg/1pr	.906 23.0	634	943
36607	4awg/4c		16awg/1pr	1.110 28.2	960	1429
36608	2awg/4c		16awg/1pr	1.276 32.4	1251	1864
Four Power Conductors and Two Signal Pairs						
36350	16awg/4c		18awg/2pr	.591 15.0	142	211
36351	14awg/4c		18awg/2pr	.610 15.5	174	259
36352	12awg/4c		18awg/1pr & 17awg/1pr	.646 16.4	240	357
36353	10awg/4c		18awg/1pr & 17awg/1pr	.701 17.8	298	444
36354	8awg/4c		18awg/1pr & 17awg/1pr	.839 21.3	448	667
36355	6awg/4c		17awg/2pr	.921 23.4	644	958
36356	4awg/4c		16awg/2pr	1.114 28.3	963	1433

OLFLEX-SERVO-FD® 785 P (Gray)

Halogen Free Continuous Flex Servo Motor Power Supply Cable for Small Bend Radius Applications

CE 22

OLFLEX-SERVO-FD® 785 P is a halogen free, ultra flexible, continuous flex motor supply cable which has been designed for automated servo systems.

SERVO-FD® 785 P ideally suited for small bend radius applications, such as cable tracks, automated handling equipment, and other continuous movement applications.

The special ultra flexible design makes OLFLEX-

Construction:

Finely stranded bare copper conductors; special elastomeric insulation; tape wrap; specially formulated gray polyurethane outer jacket.



Technical Data:

Minimum bend radius: 5 x cable diameter

Insulation resistance: 20 TW x cm

Temperature range:

Flexing: -30°C to +80°C

Conductor stranding: Extra Fine Wire per VDE 0295, Class 6

Working voltage: 600/1000 V

Color code: Black with white numbers, plus green/yellow

Test voltage: 4000 V

Conforms to CE Directives

Part Number	Power Conductors	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
36380	16awg/4c	.413	10.5	87	129	36384	8awg/4c	.740	18.8	393	585
36381	14awg/4c	.465	11.8	126	187	36385	6awg/4c	.847	21.5	580	863
36382	12awg/4c	.551	14.0	184	273	36386	4awg/4c	1.024	26.0	880	1309
36383	10awg/4c	.583	14.8	241	358						

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